### PATENT COOPERATION TREATY

## **PCT**

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference S 2004/03	FOR FURTHER ACTION	See item 4 below
International application No. PCT/EP2005/050232	International filing date (day/month/year) 20 January 2005 (20.01.2005)	Priority date (day/month/year) 23 January 2004 (23.01.2004)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant SOLVAY (Société Anonyme)		

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).			
2.	This REPORT consists of a tota	consists of a total of 5 sheets, including this cover sheet.		
	In the attached sheets, any refere to the international preliminary	ence to the written opinion of report on patentability (Chapt	the International Searching Authority should be read as a reference ter I) instead.	
3.	This report contains indications	relating to the following item	is:	
	Box No. I	Basis of the report		
	Box No. II	Priority		
	Box No. III	Non-establishment of opin applicability	nion with regard to novelty, inventive step and industrial	
	Box No. IV	Lack of unity of invention	1	
	Box No. V	Reasoned statement under applicability; citations and	Article 35(2) with regard to novelty, inventive step or industrial dexplanations supporting such statement	
	Box No. VI	Certain documents cited		
	Box No. VII	Certain defects in the inter	rnational application	
	Box No. VIII	Certain observations on th	e international application	
4.	The International Bureau will conot, except where the applicant radate (Rule 44bis .2).	ommunicate this report to desi makes an express request und	ignated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority	
			Date of issuance of this report 24 July 2006 (24.07.2006)	
	The International Bure 34, chemin des Col		Authorized officer	
	1211 Geneva 20 Su		Ellen Moyse	

e-mail: pt05@wipo.int

Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

## **PATENT COOPERATION TREATY**

From		AL SEA	ARCHING AUTH	ORITY			REC'D 1 2 AP	R 2005
То:						F	WIPO	PCT
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	see	o form	PCT/ISA/220	. ,	INTERNATION	NAL SE	PINION OF EARCHING A ule 43 <i>bis</i> .1)	THE AUTHORITY
					Date of mailing (day/month/year) see	e form PC	T/ISA/210 (second	sheet)
	licant's or age form PCT				FOR FURTHER A See paragraph 2 below			
1	rnational appl TÆP2005/0			International filing date (c 20.01.2005	day/month/year)	Priority 23.01	date <i>(day/monthlye</i> 2004	ar)
International Patent Classification (IPC) or both national classification C08K3/26, C08K9/04, C09C1/02, C09K3/10, C09D7/12,				both national dassification 09K3/10, C09D7/12,	and IPC C01F11/18			
	licant LVAY (SO	CIETE	E ANONYME)					
1.	This opin	nion co	ontains indication	ons relating to the follo	owing items:			
	⊠ Box No	o. I	Basis of the op	inion				
	☐ Box No	o. II	Priority					
	☐ Box No	o. III	Non-establishn	nent of opinion with rega	ard to novelty, inventive	e step ar	nd industrial appli	cability
☐ Box No. IV Lack of unity of invention			-	•	,,	•		
	⊠ Box No	o. V	Reasoned state applicability; cit	ement under Rule 43 <i>bis</i> ations and explanations	.1(a)(i) with regard to i	novelty, i ement	nventive step or i	ndustrial
	☐ Box No	o. VI	Certain docume	ents cited				
ı	☐ Box No	o. VII	Certain defects	in the international app	lication .			
	☐ Box No	o. VIII	Certain observa	ations on the internation	al application			
2.	FURTHER	R ACTI	ON					
	the applica	inion of ant cho nal Bur	r the Internationa oses an Authorii eau under Rule (	minary examination is nall Preliminary Examining by other than this one to 66.1 bis(b) that written of	Authority ("IPEA"). He be the IPEA and the c	owever, i	this does not app	he seebana
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.			f throa				
	For further	r option	s, see Form PC	T/ISA/220.				
3.				orm PCT/ISA/220.				
Name	and mailing	addres	s of the ISA:		Authorized Officer			
	<u></u>		)-11 C/f					Septiment of Petanger.
_	<b>9</b> D-80	0298 M			Von Kuzenko, M			
	Tel. Fax:	+49 89 +49 89 :	2399 - 0 Tx: 5236 2399 - 4465	56 epmu d	Telephone No. +49 89	2399-860	5	The same of

Form (PCT/ISA/237) (Cover Sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/050232

_	Po	- Al	o. I Basis of the opinion
_			
1.	Wit the	h re lan	egard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
		ıaı	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	Wit nec	h re	egard to any <b>nucleotide and/or amino acld sequence</b> disclosed in the international application and eary to the claimed invention, this opinion has been established on the basis of:
	a. t	ype	of material:
	(		a sequence listing
	ī		table(s) related to the sequence listing
	b. fo	orm	at of material:
	Ε		in written format
	[	]	in computer readable form
	c. ti	me	of filling/furnishing:
		]	contained in the international application as filed.
	E	]	filed together with the international application in computer readable form.
	[	]	furnished subsequently to this Authority for the purposes of search.
3.		cop	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto seen filed or furnished, the required statements that the information in the subsequent or additional bies is identical to that in the application as filed or does not go beyond the application as filed, as propriate, were furnished.
4	Addi	itior	nal commente:

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2005/050232

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims 1-9

Industrial applicability (IA)

Yes: Claims

1-9

1-9

No: Claims

2. Citations and explanations

see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2005/050232

cf V

D1: DE-A-2 411 219 D2: GB-A-1 328 361 D3: DE-B-1 292 374 D4: WO-A-02/55 596

- Claim 1 discloses particles comprising a core of calcium carbonate and a coating covering at least part of the surface of the core, the coating being carried out in at least two distinct consecutive steps, each step using different coating agent.
   Claim 2 discloses compounds to be used as coating agent.
- 2. Documents D1 to D4 disclose calcium carbonate particles which have been coated by a two step process according to claim 1.

Therefore the subject-matter of claim 1 does not meet the requirements of Art. 33(2) PCT.

Documents D1 to D3 disclose also coating agents which are comprised by claim 2. Art. 33(2) PCT.

3. The concept of coating calcium carbonate particles in a two step process is already state of the art.

Hence claims 1 to 9 do not meet the requirements of Art. 33(3) PCT.



## To the European Patent Office

## Entry into the European phase (EPO as designated or elected Office)

European application number	EP05701566.1
PCT application number	PCT/EP2005/050232
PCT publication number	WO2005071003
Applicant's or representative's reference	S 2004/03
1. Applicant	
Particulars of the applicant(s) are contained in the international publication or were recorded by the International Bureau subsequent to the international publication.	Ø
Changes which have not yet been recorded by the International Bureau are set out here:	
Address for correspondence	
2. Representative 1	
This is the representative who will be listed in the Register of European Patents and to whom notifications will be made	
Name	VANDE GUCHT, Ms Anne
Registration No	100038980
Address of place of business	SOLVAY (Société Anonyme)
	Intellectual Property Department
	Ruc de Ransbeck, 310
	BRUXELLES, 1120
	Belgium
Telephone	32 2 264 2206
Fax	32 2 264 2955
e-mail	anne.vandegucht@solvay.com
Any additional representative(s) is/are listed here:	
	JACQUES, Mr Philippe
	MROSS, Mr. Stefan
	GILLIARD, Mr. Pierre
3. General Authorisation:	
An individual authorisation is attached.	
A general authorisation has been registered under No:	
	46764
A general authorisation has been filed, but not yet registered.	
The authorisation filed with the EPO as PCT receiving Office expressly includes the European phase.	
4. Request for examination	
Examination of the application under Art. 94 EPC is hereby requested. The examination fee is being (has been, will be) paid.	
Request for examination in an admissible non-EPO language:	
	Verzocht wordt om onderzoek van de aanvrage als bedoeld in Art. 94.
5. Copies	
One or more additional sets of copies of the documents cited in the supplementary  European search report are hereby requested.	

Number of additional sets of copies	
6. Documents intended for proceedings before the EPO	
6.1 Proceedings before the EPO as designated Office (PCT I) are to be based on the following documents:	
the application documents published by the International Bureau (with all claims, description and drawings), where applicable with amended claims under Art. 19 PCT	
unless replaced by the amendments attached.	
Where necessary, clarifications should be attached as 'Other Documents'	
6.2 Proceedings before the EPO as elected Office (PCT II) are to be based on the following documents:	
the documents on which the international preliminary examination report is based, including any annexes	
unless replaced by the amendments attached.	
Where necessary, clarifications should be attached as 'Other Documents'	
If the EPO as International Preliminary Examining Authority has been supplied with test reports, these may be used as the basis of proceedings before the EPO.	
7. Translations	
Translations in one of the official languages of the EPO (English, French, German) are attached as crossed below:	
* In proceedings before the EPO as designated or elected Office (PCT I + II):	
Translation of the international application (description, claims, any text in the drawings) as originally filed, of the abstract as published and of any indication under Rule 13bis.3 and 13bis.4 PCT regarding biological material	
Translation of the priority application(s)	
It is hereby declared that the international application as originally filed is a complete translation of the previous application (Rule 38(5) EPC)	
* In addition, in proceedings before the EPO as designated Office (PCT l):	
Translation of amended claims and any statement under Art. 19 PCT, if the claims as amended are to form the basis for the proceedings before the EPO (see Section 6).	
* In addition, in proceedings before the EPO as elected office (PCT II):	
Translation of annexes to the international preliminary examination report	
8. Biological material	
The invention relates to and/or uses biological material deposited under Rule 28 BPC.	
The particulars referred to in Rule 28(1)(c) EPC (if not yet known, the depository institution and the identification reference(s)) [number, symbols, etc.] of the depositor) are given in the international publication or in the translation submitted under Section 7 on:	
page(s) / line(s)	
A copy of the receipt(s) of deposit issued by the depositary institution	
is attached	<u> </u>
will be filed at a later date	
A waiver of the right to an undertaking from the requester pursuant to Rule 28(3) EPC is attached.	
9. Nucleotide and amino acid sequences	_
The items required under Rules 5.2 and 13ter PCT and Rule 111(3) EPC have already been furnished to the EPO.	
The sequence listing as part of the description is attached in PDF format.	
The sequence listing does not include matter that goes beyond the content of the application as filed.	_
In addition, the sequence listing data is attached in computer-readable form in accordance with WIPO Standard 25.	
The sequence listing data in computer-readable form in accordance with WIPO Standard 25 is identical to the sequence listing in PDF format.	
10. Designation fees	
10.1 It is currently intended to pay seven times the amount of the designation fee. The	

	signation fees for all the EPC contracting solication are thereby deemed to have been				
ΓA	BE BG CH&LI CY CZ DE DK EE ES F	-	•		
10	2 It is currently intended to pay fewer that C contracting states designated in the inter	n seven designation feer mational application:	s for the following		
in : iss sev EP	3 It is requested that no communication un respect of the contracting states not indicatudd, the BPO is authorised, on expiry of the ren times the amount of the designation fer O shall debit designation fees only for tho terwise before expiry of the basic period.	ted. If an automatic deb ne basic period under Ar e. If less than seven stat	it order has been rticle 79(2), to debit tes are indicated, the	Ø	
11. E	xtension of the European patent				-,-,
no: "ez Ho	is application is also considered as being a n-contracting states to the EPC designated ttension agreements" were in force on the wever, the extension only takes effect if the s currently intended to pay the extension f	in the international app date of filing the interna- ne prescribed extension	olication with which ational application. fee is paid.		
12. L	ist of enclosed documents		· · · · · · · · · · · · · · · · · · ·		
	Description of document	Original fil	e name	Assigned	file name
13. A	utomatic debit order			Ø	
Cu	rrency			EUR	
aut	e European Patent Office is hereby author omatic debiting procedure, to debit from t ling due.			1	
	posit account number			28020006	
	count holder			SOLVAY (Société	A
			- EDO 4		Anonyme
accoi	leimbursements (if any) should be m unt:	iane co me ionowin	g EPO deposit		
Nu	mber and account holder			SOLVAY (Société : 28020006	Anonyme),
15. F	ecs				
			Factor/Reduction applied	Fee schedule	Amount to be paid
15-1	002e Fee for supplementary European se filed before 01.07.2005	arch for applications	0	720.00	0.00
15-2	005 Designation fee		7	80.00	560.00
15-3	006e Examination fee (Euro-PCT withou European search report)	t supplementary	0.8	1 490.00	1 192.00
15-4	015 Claims fee		0	45.00	0.00
15-5	020 Basic national fee for an international	l application	1	95.00	95.00
15-6	033 Renewal fee for the 3rd year	Total:	1	400.00 EUR	400.00 <b>2 247.00</b>
16. A	nnotations				224,100
16-	1. Note (for EPO) (EP Phase)			General Authorizati	on (; 13.07.2006)
				For Employees (Art having a General At Maryse GRANVILI Authorization 46764 Jean-François SERF Authorization 46764	uthorization : LE - General 4 RIER - General
17. S	gnature(s) of applicant(s) or repres	entative			
	Place:	Brussels			

13.July 2006

Date:

Original (for SUBMISSION) - printed on 13.July 2006, 10:03:43

Signed by: BE, Solvay S.A., P. Jacques 7578

Capacity: (Representative)



Europäisches Patentamt European Patent Office Office européen des brevets

## Acknowledgement of receipt

We hereby acknowledge receipt of the form for entry into the European phase (EPO as designated or elected Office) as follows:

PCT application number  Date of receipt  Receiving Office  Your reference  S	38422 PCT/EP2005/050232 3 July 2006 European Patent Office, The Hague	
Date of receipt 1  Receiving Office E  Your reference S	3 July 2006 Suropean Patent Office, The Hague	
Receiving Office B Your reference S	European Patent Office, The Hague	
Your reference S		
	3 2004/03	
Applicant		
Country		
Documents submitted p	ackage-data.xml	epf1200.pdf (4 p.)
e	p-euro-pct.xml	application-body.xml
S	BE, Solvay S.A., P. Jacques 7578 Subject: BE, Solvay S.A., P. Jacques 7 Office, European Patent Office CA Online	578; Issuer: , European Patent
Date and time receipt generated	3 July 2006, 16:42:18 (CEST)	
Digest C	C9:7E:2A:DF:7B:C6:8E:63:AE:96:EC	:32:03:1A:E5:13:49:C8:69:8E

/European Patent Office/



P.B.5818 - Patentlaan 2 2280 HV Rijswijk (ZH) (070) 3 40 20 40 FAX (070) 3 40 30 16 Europäisches Patentamt European Patent Office Office européen des brevets

Generaldirektion 1

Directorate General 1

Direction générale 1

VANDE GUCHT, Anne Solvay (Soci\$t\$ Anonyme) D\$partement de la Propri\$t\$ Intellectuelle Rue de Ransbeek 310 B-1120 Bruxelles BELGIQUE



**EPO Customer Services** 

Tel.: +31 (0)70 340 45 00

Date 08.06.06

Reference	Application No./Patent No. 05701566.1 - 2102 PCT/EP2005050232	
Applicant/Proprietor Solvay SA		

#### Entry into the European phase before the European Patent Office

These notes describe the procedural steps required for entry into the European phase before the European Patent Office (EPO). You are advised to read them carefully: failure to take the necessary action in time can lead to your application being deemed withdrawn.

- 1. The above-mentioned international patent application has been given European application No. 05701566.1.
- 2. Applicants without a residence or their principal place of business in an EPC contracting state may themselves initiate European processing of their international applications, provided they do so before expiry of the 31st month from the priority date (see also point 6 below).

During the European phase before the EPO as designated or elected Office, however, such applicants must be represented by a professional representative (Arts. 133(2) and 134(1), (7) EPC).

Procedural acts performed after expiry of the 31st month by a professional representative who acted during the international phase but is not authorised to act before the EPO have no legal effect and therefore lead to loss of rights.

Please note that a professional representative authorised to act before the EPO and who acted for the applicant during the international phase does not automatically become the representative for the European phase. Applicants are therefore strongly advised to appoint in good time any representative they wish to initiate the European phase for them; otherwise, the EPO has to send all communications direct to the applicant.

- Applicants with a residence or their principal place of business in an EPC contracting state are not obliged to appoint, for the European phase before the EPO as designated or elected Office, a professional representative authorised to act before the EPO.
   However, in view of the complexity of the procedure it is recommended that they do so.
- 4. Applicants and professional representatives are also strongly advised to initiate the European phase using EPO Form 1200 (available free of charge from the EPO). This however is not compulsory.



Date

- 5. To enter the European phase before the EPO, the following acts must be performed. (N.B.: Failure validly to do so will entail loss of rights or other adverse legal consequences.)
  - 5.1 If the EPO is acting as designated or elected Office (Arts. 22(1)(3) and 39(1) PCT respectively), applicants must, within 31 months from the date of filing or (where applicable) the earliest priority date:
    - a) Supply a translation of the international application into an EPO official language, if the International Bureau did not publish the application in such a language (Art. 22(1) PCT and R. 107(1)(a) EPC).
       If the translation is not filed in time, the international application is deemed withdrawn before the EPO (R. 108(1) EPC).
       This loss of rights is deemed not to have occurred if the translation is then filed within a two-month grace period as from notification of an EPO communication, provided a surcharge is paid at the same time (R. 108(3) EPC).
    - b) Pay the national basic fee (EUR 170,00) and, where a supplementary European search report has to be drawn up, the search fee (EUR 720,00; R. 107(1)(c) and (e) EPC).
    - c) If the time limit under Article 79(2) EPC expires before the 31-month time limit, pay the designation fee (EUR 80,00) for each contracting state designated (R. 107(1)(d) EPC).
    - d) If the time limit under Article 94(2) EPC expires before the 31-month time limit, file the written request for examination and pay the examination fee (EUR 1490,00; R. 107(1)(f) EPC).
    - Pay the third-year renewal fee (EUR 400,00) if it falls due before expiry of the 31-month time limit (R. 107(1)(g) EPC).

If the fees under (b) to (d) above are not paid in time, or the written request for examination is not filed in time, the international application is deemed withdrawn before the EPO, or the contracting-state designation(s) in question is (are) deemed withdrawn (R. 108(1) and (2) EPC). However, the fees may still be validly paid within a two-month grace period as from notification of an EPO communication, provided the necessary surcharges are paid at the same time (R. 108(3) EPC). For the renewal fee under (e) above, the grace period is slx months from the fee's due date (Art. 86(2) EPC).

For an overview of search and examination fees, see OJ EPO 11/2005, 577 and 03/2006.

- 5.2 If the application documents on which the European grant procedure is to be based comprise more then ten claims, a claims fee is payable within the 31-month time limit under Rule 107(1) EPC for the eleventh and each subsequent claim (R. 110(1) EPC). The fee can however still be paid within a one-month grace period as from notification of an EPO communication pointing out the failure to pay (R. 110(2) EPC).
- 6. If the applicant had a representative during the application's international phase, the present notes will be sent to the representative, asking him to inform the applicant accordingly.

All subsequent communications will be sent to the applicant, or - if the EPO is informed of his appointment in time - to the applicant's European representative.



7. For more details about time limits and procedural acts before the EPO as designated and elected Office, see the EPO brochure

How to get a European patent Guide for applicants - Part 2 PCT procedure before the EPO - "Euro-PCT"

This brochure, the list of professional representatives before the EPO, Form 1200 and details of the latest fees are now all available on the Internet under

http://www.european-patent-office.org

#### Receiving section

Date

